PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference								
YCT-918	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/JP2004/003873	22.03.2004	20.03.2003						
International Patent Classification (IPC) or national classification and IPC								
Applicant								
CHUGAI SEIYAKU KABUSHIKI KAISHA								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	6 sheets, inc	luding this cover sheet.						
3. This report is also accompanied by A								
a. (sent to the applicant and	l to the International Bureau) a total of	sheets, as follows:						
sheets containing re Instructions).	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
	Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
		containing a sequence listing and/or tables						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relati	ing to the following items:							
Box No. I Basis of the	ereport							
Box No. II Priority								
Box No. III Non-establi	ishment of opinion with regard to novelty, i	nventive step and industrial applicability						
Box No. IV Lack of uni	ty of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain doc	Box No. VI Certain documents cited							
Box No. VII Certain def	Box No. VII Certain defects in the international application							
Box No. VIII Certain obs	Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of completion	of this report						
		·						
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer						
Facsimile No.	Telephone No.							

Translation

International application No.

PCT/JP2004/003873

Box	No. I	Basis of the report					
1.	With	egard to the language, this report is based on the international application in the language in which it was filed, unless otherwise ed under this item.					
		This report is based on translations from the original language which is the language of a translation furnished for the purpo	report is based on translations from the original language into the following language, ch is the language of a translation furnished for the purposes of:				
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)					
		international preliminary examination (Rule 55.2 and/o	•				
2.	recei	regard to the elements of the international application, this r iving Office in response to an invitation under Article 14 are report):	rd to the elements of the international application, this report is based on (replacement sheets which have been furnished to the Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the this contains the contains and the contains and the contains the contains the contains the contains and the contains the contains and the contains the conta				
	\boxtimes	the international application as originally filed/furnished					
		the description:					
		pages	as originally filed/furnished				
		pages*	received by this Authority on				
		pages*	received by this Authority on				
		the claims:					
		nos.	as originally filed/furnished				
		nos.*	as amended (together with any statement) under Article 19				
		nos.*	received by this Authority on				
		nos.*	received by this Authority on				
		the drawings:					
		sheets	as originally filed/furnished				
		sheets*	received by this Authority on				
		sheets*					
		a sequence listing and/or any related table(s) - see Suppleme					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.	the claims, nos.				
		the drawings, sheets/figs	the drawings, sheets/figs				
		the sequence listing (specify):	1				
4.		This report has been established as if (some of) the amenda they have been considered to go beyond the disclosure as fil	ments annexed to this report and listed below had not been made, since ed, as indicated in the Supplemental Box (Rule 70.2(c)).				
	the description, pages						
		the claims, nos.					
		the drawings, sheets/figs					
		I F	the sequence listing (specify):				
	any table(s) related to sequence listing (specify):						
*	If ite	m 4 applies, some or all of those sheets may be marked "supe					

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Bo		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-18	YES	
		Claims		NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-18	NO NO	
	Industrial applicability	(IA) Claims	1-18	YES	
		Claims		NO	

2. Citations and explanations (Rule 70.7)

- Document 1: Wayner et al., "Quantitative measurement of the total, peroxyl radical-trapping antioxidant capability of human blood plasma by controlled peroxidation", FEBS Letters, vol. 187, no. 1 (1985), pages 33 to 37
- Document 2: Kritharides et al., "A method for defining the stages of LDL oxidation", Analytical Biochemistry, vol. 213 (1993), pages 79 to 89

Claims 1 to 18

Document 1 cited in the international search report sets forth a method of assessing the antioxidant function in a blood sample, wherein a blood sample is taken from the body, an oxidation reaction is commenced, the oxidation reaction is continued, and the antioxidant component is assessed from the progress of said oxidation reaction.

Document 2 cited in the international search report indicates that in order to investigate the oxidation reaction of LDL contained in a blood constituents, LDL is

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

subjected to an oxidation reaction, and cholesterol oxides and cholesterol peroxides, the product of said reaction, are measured.

Here, the invention set forth in document 2 measures the oxidation reaction of blood constituents, therefore when investigating the progress of the oxidation reaction set forth in document 1, it would be obvious to a person skilled in the art to apply the invention set forth in document 2, to constitute a configuration similar to that set forth in the claims of this application.

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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

In the light of the description, only when the antioxidant component is alpha-tocopherol in the blood, the oxidized substance is fat in the blood, and the oxidation products from fat are cholesterol ester hydroxide and cholesterol ester hydroperoxide, is the effect obtained that a risk assessment can be made of the lesions which are aggravated by oxidation stress by measuring the oxidation reaction which progresses in the presence of antioxidant components within the body. However, this feature is not clearly disclosed in the claims of this application.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 15 and 16 pertain to the relationship between different disorders and the antioxidant capability of a biological sample, but the correlation between the two is not supported by a technically appropriate explanation in the description of this application.